



## SEQUENCE LISTING

<110> Hellinga, Homme W.  
Looger, Loren L.

<120> Biosensor

<130> 1579-863

<140> US 10/686,529

<141> 2003-10-16

<150> US 60/418,359

<151> 2002-10-16

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Glu Phe Lys Gln Gly Asp Lys Tyr Val Gly Phe Asp Val Asp Leu Trp  
20 25 30

Ala Ala Ile Ala Lys Glu Leu Lys Leu Asp Tyr Glu Leu Lys Pro Met  
35 40 45

Asp Phe Ser Gly Ile Ile Pro Ala Leu Gln Thr Lys Asn Val Asp Leu  
50 55 60

Ala Leu Ala Gly Ile Thr Ile Thr Asp Glu Arg Lys Lys Ala Ile Asp  
65 70 75 80

Phe Ser Asp Gly Tyr Tyr Lys Ser Gly Leu Leu Val Met Val Lys Ala  
85 90 95

Asn Asn Asn Asp Val Lys Ser Val Lys Asp Leu Asp Gly Lys Val Val  
100 105 110

Ala Val Lys Ser Gly Thr Gly Ser Val Asp Tyr Ala Lys Ala Asn Ile  
115 120 125

Lys Thr Lys Asp Leu Arg Gln Phe Pro Asn Ile Asp Asn Ala Tyr Met  
130 135 140

Glu Leu Gly Thr Asn Arg Ala Asp Ala Val Leu His Asp Thr Pro Asn  
145 150 155 160

Ile Leu Tyr Phe Ile Lys Thr Ala Gly Asn Gly Gln Phe Lys Ala Val  
165 170 175  
  
Gly Asp Ser Leu Glu Ala Gln Gln Tyr Gly Ile Ala Phe Pro Lys Gly  
180 185 190  
  
Ser Asp Glu Leu Arg Asp Lys Val Asn Gly Ala Leu Lys Thr Leu Arg  
195 200 205  
  
Glu Asn Gly Thr Tyr Asn Glu Ile Tyr Lys Lys Trp Phe Gly Thr Glu  
210 215 220  
  
Pro Lys  
225

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Phe Glu Ser Lys Asn Ser Gln Gly Glu Leu Val Gly Phe Asp Ile Asp  
20 25 30

Leu Ala Lys Glu Leu Cys Lys Arg Ile Asn Thr Gln Cys Thr Phe Val  
35 40 45

Glu Asn Pro Leu Asp Ala Leu Ile Pro Ser Leu Lys Ala Lys Lys Ile  
50 55 60

Asp Ala Ile Met Ser Ser Leu Ser Ile Thr Glu Lys Arg Gln Gln Glu  
65 70 75 80

Ile Ala Phe Thr Asp Lys Leu Tyr Ala Ala Asp Ser Arg Leu Val Val  
85 90 95

Ala Lys Asn Ser Asp Ile Gln Pro Thr Val Glu Ser Leu Lys Gly Lys  
100 105 110

Arg Val Gly Val Leu Gln Gly Thr Thr Gln Glu Thr Phe Gly Asn Glu  
115 120 125

His Trp Ala Pro Lys Gly Ile Glu Ile Val Ser Tyr Gln Gly Gln Asp  
130 135 140

Asn Ile Tyr Ser Asp Leu Thr Ala Gly Arg Ile Asp Ala Ala Phe Gln  
145 150 155 160

Asp Glu Val Ala Ala Ser Glu Gly Phe Leu Lys Gln Pro Val Gly Lys  
165 170 175

Asp	Tyr	Lys	Phe	Gly	Gly	Pro	Ser	Val	Lys	Asp	Glu	Lys	Leu	Phe	Gly
180.										185					190
Val	Gly	Thr	Gly	Met	Gly	Leu	Arg	Lys	Glu	Asp	Asn	Glu	Leu	Arg	Glu
195						200							205		
Ala	Leu	Asn	Lys	Ala	Phe	Ala	Glu	Met	Arg	Ala	Asp	Gly	Thr	Tyr	Glu
210						215							220		
Lys	Leu	Ala	Lys	Lys	Tyr	Phe	Asp	Phe	Asp	Val	Tyr	Gly	Gly		
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<212> PRT  
<213> Escherichia coli

<400> 3

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Val	Gly	His	Arg	Glu	Ser	Ser	Val	Pro	Phe	Ser	Tyr	Tyr	Asp	Asn	Gln
					20			25					30		
Gln	Lys	Val	Val	Gly	Tyr	Ser	Gln	Asp	Tyr	Ser	Asn	Ala	Ile	Val	Glu
					35			40				45			
Ala	Val	Lys	Lys	Lys	Leu	Asn	Lys	Pro	Asp	Leu	Gln	Val	Lys	Leu	Ile
					50			55			60				
Pro	Ile	Thr	Ser	Gln	Asn	Arg	Ile	Pro	Leu	Leu	Gln	Asn	Gly	Thr	Phe
					65			70			75			80	
Asp	Phe	Glu	Cys	Gly	Ser	Thr	Thr	Asn	Asn	Val	Glu	Arg	Gln	Lys	Gln
					85				90			95			
Ala	Ala	Phe	Ser	Asp	Thr	Ile	Phe	Val	Val	Gly	Thr	Arg	Leu	Leu	Thr
					100			105				110			
Lys	Lys	Gly	Gly	Asp	Ile	Lys	Asp	Phe	Ala	Asn	Leu	Lys	Asp	Lys	Ala
					115			120			125				
Val	Val	Val	Thr	Ser	Gly	Thr	Thr	Ser	Glu	Val	Leu	Leu	Asn	Lys	Leu
					130			135			140				
Asn	Glu	Glu	Gln	Lys	Met	Asn	Met	Arg	Ile	Ile	Ser	Ala	Lys	Asp	His
					145			150			155			160	
Gly	Asp	Ser	Phe	Arg	Thr	Leu	Glu	Ser	Gly	Arg	Ala	Val	Ala	Phe	Met
					165				170			175			
Met	Asp	Asp	Ala	Leu	Leu	Ala	Gly	Glu	Arg	Ala	Lys	Ala	Lys	Lys	Pro
					180			185			190				

Asp Asn Trp Glu Ile Val Gly Lys Pro Gln Ser Gln Glu Ala Tyr Gly  
195 200 205

Cys Met Leu Arg Lys Asp Asp Pro Gln Phe Lys Lys Leu Met Asp Asp  
210 215 220

Thr Ile Ala Gln Val Gln Thr Ser Gly Glu Ala Glu Lys Trp Phe Asp  
225 230 235 240

Lys Trp Phe Lys Asn Pro Ile Pro Pro Lys Asn Leu Asn Met Asn Phe  
245 250 255

Glu Leu Ser Asp Glu Met Lys Ala Leu Phe Lys Glu Pro Asn Asp Lys  
260 265 270

Ala Leu Asn  
275